

KENWOOD

Land Mobile Radio Division Price Guide

TK-190

Low Band Portable Radio

- 16 Channel Capacity
- Wide-Band Coverage
- 7-Character Invert Display
- Priority Scan
- Programable Power Per Channel
- 5 Programmable Keys
- MIL-STD 810 C/D/E
- Internal Noise-Canceling Microphone
- Operator Selectable Tone/Code (OST)
- Recessed Emergency / Function Key
- Companded Audio
- "Programmable" MIL-SPEC Speak Mics

MODEL	DESCRIPTION	LIST
	Heavy-duty Spring-action Belt Clip, Channel Selector Mechanical stop and dressing plate included - Antenna & Battery not included.	
TK-190K	VHF Low Band 29.7 – 37.0 MHz 6W, 16 Channels	642.00
TK-190K2	VHF Low Band 35.0 – 50.0 MHz 6W, 16 Channels	642.00

Important Notice

Regarding the TK-190 Model Radios!

*** If this transceiver is programmed for more than one channel, the transmit frequencies must be within a 500 kHz range.***

- The physical condition of the antenna may affect the radio's performance.
- If the original KRA-21 antenna is worn, bent or damaged, immediately have your Kenwood authorized dealer replace the antenna with a new, properly adjusted KRA-21 antenna.
- Failure to follow these instructions may cause poor performance, damage to your transceiver, and may also place excess transmitter energy on the metal portions of your radio, which could make the transceiver uncomfortable to handle when transmitting.
- When transmitting, if your hand feels uncomfortable, contact your Kenwood dealer for a transceiver inspection, and possible antenna replacement.

ANTENNAS

KRA-21 ¹	Tunable VHF Low Band helical antenna 29.7-50MHz. (Note: Antenna band width is 1 MHz.)	40.00
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BATTERIES AND CHARGERS

KNB-17A	1500 mAh, 7.2 VDC (4/5W), NiCd battery	67.00
KNB-17BK ²	Intrinsically Safe Battery 1500 mAH, 7.2 VDC (4/5W), NiCd battery [Intrinsically Safe Option] - must order L-835.	100.00
KNB-21N ⁷	1600 mAh NiMH (more than 10 hours life @ 5-5-90) - requires KSC-24 charger. Note: Not compatible with Kenwood NiCd chargers or earlier model leather cases.	60.00
KNB-22N ⁷	2100 mAh NiMH (more than 13 hours life @ 5-5-90) - requires KSC-24 charger. Note: Not compatible with Kenwood NiCd chargers or earlier model leather cases.	70.00
KNB-22NC ^{7,8}	2100 mAh NiMH battery - requires KSC-24 charger - [Intrinsically Safe Option] - must order L-979.	117.00
KBP-4 ³	AA Alkaline Refillable Battery Pack for TK-190/290/390/280/380 (12 AA Alkaline 9V) Battery cells not incl.	41.00

BATTERIES AND CHARGERS CONT'D

KMB-16	Six Unit Charger Adapter for the KSC-20/24/25 rapid rate (chargers not included)	165.00
KMB-23	Six Unit Charger Adapter for the KSC-32,25,24 &16 rapid rate chargers (chargers not included) Small footprint (13"Wx7.8"Hx11.7"D); 2 tiered rows hold 3 KSC-units each	182.00
KSC-19	Regular rate single unit desk charger for KNB-16/17A/17B	35.00
KSC-19M	220 volt regular rate single unit desk charger for KNB-16/17A/17B	35.00
KSC-24	110 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KSC-24E	220 volt Rapid rate single unit dual-chemistry charger for KNB-14/15/16/17A/17B/20N/21N/22N	59.00
KVC-3	Regular rate DC vehicular charger adapter for the KSC-15,19,30 (chargers not included)	60.00
KVC-4	Rapid rate DC vehicular charger adapter for the KSC-16,24,25 (chargers not included)	80.00
KVC-5A ⁴	Vehicular D.C. Charger for 80/90 Series Portables Note: Compatible with the KNB-16/17A/17B/21N/22N/22NC	340.00

CARRYING ACCESSORIES

KBH-10	Spring action belt clip	8.00
KBH-8DS ⁵	Swivel belt loop with D-Ring	25.00
KLH-6SW	Leather swivel belt loop/detachable swivel D-Ring back for a leather case	21.00
KLH-78B	Heavy duty leather carrying case for TK-190/290/390	42.00
KLH-88	Cordura Nylon carrying case for TK-190/290/390	25.00
KLH-137ST	Firemen's Heavy-Duty Leather Shoulder Strap for KLH-78B	35.00

MICROPHONE AND SPEAKERS

KCT-30 ²	2.5mm Audio Accessory Adapter for KEP-3/4 [Intrinsically Safe Approved Accessory]	61.00
KEP-1 ²	3.5mm earphone kit for KMC-25/26 Speaker Mics (Black only) [Intrinsically Safe Approved Accessory]	50.00
KEP-3 ²	Earphone kit w/ 2.5mm plug for KCT-30, 30" Cable (black) [Intrinsically Safe Approved Accessory]	49.00
KEP-4 ²	Earphone kit w/ 2.5mm plug for KCT-30, 48" Cable (black) [Intrinsically Safe Approved Accessory]	52.00
KMC-25A ^{2, 6}	MIL-SPEC, Noise canceling Speaker mic (For TK-190 low band use) [Intrinsically Safe Approved Accessory]	92.00
KHS-11BE ²	2-wire palm mic w/earphone, universal connector (Beige) [Intrinsically Safe Approved Accessory] [SEE Note A]	149.00
KHS-11BL ²	2-wire palm mic w/earphone, universal connector (Black) [Intrinsically Safe Approved Accessory]	149.00
KHS-12BE ²	3-wire mini lapel mic w/earphone, universal connector (Beige) [Intrinsically Safe Approved Accessory] [SEE Note A]	175.00
KHS-12BL ²	3-wire mini lapel mic w/earphone, universal connector (Black) [Intrinsically Safe Approved Accessory]	175.00
KHS-14 ²	Lt. Wt. Single muff headset w/boom mic & In-line PTT, universal connector (Black) - [Intrinsically Safe Approved Accessory]	120.00

MICROPHONE AND SPEAKERS CONT'D

KHS-15-BH ²	Hvy-duty noise reduction behind-the-headset w/noise cancelling boom mic & in-line PTT (black); NRR24 db [Intrinsically Safe Approved Accessory] [SEE Note B]	400.00
KHS-15-OH ²	(black); NRR24 db [Intrinsically Safe Approved Accessory] [SEE Note B]	350.00

Note A: "Beige-colored" 2-wire & 3-wire mic models; Allow min. 4 weeks delivery time.

Note B: Heavy-duty headsets; Allow min. 4 weeks delivery time.

DIGITAL MODULE

CIM-1000	G-Star® or MDC1200 ANI Board : PTT ANI, emergency & man-down [Intrinsically Safe Approved Accessory] - Factory Install Only –Order L-1038 or 1039.	125.00
CIM-CABLE	Serial Program Cable	59.00
	CIM-1000 programs via Windows Hyper terminal (Windows Ver 3.1 or later) or any ProComm version; board must be installed in a powered radio for programming. The radio programmer does NOT program the CIM-1000. CIM-CABLE is a DB-9 PC connector with 3 short lead with clips and may require a PC serial extension cable	
KCT-56MS	Emergency Man-Down Internal Tilt Switch [Intrinsically Safe] - Must be Kenwood installed for I.S. Order L-1059 for install	21.00
KCT-56MS	FleetSync® Emergency Man-Down Internal Tilt Switch [Intrinsically Safe] - Must be Kenwood installed for I.S. Order L-1060 for install	21.00

SERVICE RELATED ACCESSORIES

KPG-36AM	Programming interface cable	N/A
KCT-53UM	USB Adapter for KPG-xxAM DB9F Programming Interface Cables (DB9M - to - USB Type A connector);	81.67
KPG-59DK	Program Software for TK-190/6110 (Version 2.00)	N/A

***** **Call Kenwood Parts at 800-367-7514 to order the following:**

E30-3325-05	Portable-to-Portable Cloning cable (For TK-290/390/480/481 Only)
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INSTALLATION / TUNING CHARGES

L-836	Assemble KMB-16 with six KSC-20's/24's	15.00
L-961	Assemble KMB-23 with six KSC-32K's (Rapid Rate, 120 Volt version only)	17.00
L-835	Configure TK-190/290/390 for Intrinsically Safe (Must Order KNB-17BK) - Note: Please see end of this pricepages section for a list of Intrinsically Safe Accessories for this radio.	70.00
L-979	Configure TK-190/290/390 (KNB-22NC) for Intrinsically Safe (Must Order KNB-22NC)	70.00
L-837	Install KNB-17A/17BK battery	0.00
L-870	Simultaneous transpond and alert feature up-grade for 90-series mobiles & portables	50.00
L-1038	TK-190/290/390 CIM-1000/MDC1200 ENCODER INSTALLATION	75.00
L-1039	TK-190/290/390 CIM-1000/GE STAR ENCODER INSTALLATION	75.00
L-1059	Install KCT-56MS (w/ CIM-1000K)	9.00
L-1060	Install KCT-56MS (for FleetSync®)	9.00
L-911	TK-190/TK-6110 Programming (with basic TX/RX check)	25.00
L-914	Cut KRA-21 Low Band Antenna	10.00

IMPORTANT INSTRUCTIONS

¹ **KRA-21 Antenna Caution-** the TK-190 antenna must be cut per the antennas cutting chart and instructions. Failure to do so will result in a poorly matched antenna, poor performance and most probably excessive and damage in the transmitters final power amplifier circuit. The antenna bandwidth is only 1 MHz. The KRA-21 low band antenna can be between 6 to 12 inches long (dependent on frequency cut). It is recommended that a KLH-6SW leather swivel belt loop with a KLH-78 or KLH-90 carrying case be used to provide the greatest comfort, freedom of movement (especially when entering or exiting vehicles) and for better transmit and receive performance. When using a KMC-25A speaker microphone, tilting the radio slightly to provide a minimum 4" spacing between the wearers body and the tip of the KRA-21 antenna will optimize receive and transmit performance. A KLH-6SW swivel loop and KLH-78/90 carrying case can help facilitate this orientation.

² **Important Note Regarding Intrinsically Safe Certification:** Using an Intrinsically Safe battery on a radio does not constitute an Intrinsically Safe (I.S.) radio. All Kenwood I.S. radios must be certified at Kenwood by inspection, logging & proper labeling. The appropriate I.S. labor code must be specified on all I.S. radio orders and the proper model I.S. battery must be used with the radio. Kenwood I.S. batteries can be purchased separately for existing Kenwood certified I.S. radios. Intentionally or inadvertently representing a Kenwood radio as I.S. without proper Kenwood certification can result in serious safety and/or legal liability issues for your company. For intrinsically safe models TK-[190]/280/380/290/390/480/481: Meets Intrinsically Safe Classes I, II & III, Div. 1, Groups C, D, E, F, G hazardous locations and Non-Incentive Class I, Div. 2, Groups C, D hazardous locations.

³ **AA refillable packs** DO NOT meet any of the MIL-STD environmental standards, nor are they water-resistant or Intrinsically Safe approved.

Actual battery life is dependent on battery condition, type, quality, temperature, and use habits. Alkalines exhibit non-linear voltage vs. current drain characteristics, therefore radio transmit power will lower and decrease during transmit and as the battery is drained. Nominal Life (hrs.) 5-5-90 duty cycle, battery save off, scan off. See chart below:

Transmit Power	1W	2W	4/5W
Nominal Battery Life (hrs.)	18	11.5	4

⁴ **KVC-5A & KVC-6A has the following features:** Accommodates Speaker/Microphones of KMC-25/26 (for KVC-5), and KMC-17/21 (for KVC-6), with retainer brackets; Rapid Charge LED (red) -- "on" when portable radio is properly seated and battery is in rapid charge mode, Trickle Charge LED (green) -- "on" when the battery is fully charged and the charger is in the trickle charge mode, repeat enable LED (yellow) -- "on" when the Automatic Enable switch is on and the portable is removed (it goes "off" when portable is inserted), and Automatic Repeat Enable Switch (activates the vehicular repeater units, e.g. Pyramid Communications brand SVR units). Note: These units are ONLY charger units. They are NOT vehicular adapters with RF, P.A., AF P.A., antenna connector, speaker & mobile hand mic. (a.k.a.; "console", "vehicular console", "convert-a-com", "jerk & run").

⁵ **Retain the screws** included with the metal belt clip (included with radio). These are required to attach the KBH-8 or KBH-8DS. Screws also available from Parts Dept.: Part # N99-2004-05.

⁶ **KMC-25** is not compatible with the TK-190 due to the effects of RF on it at low band frequencies; the KMC-25A is the compatible model. The KMC-26 Speaker microphone with antenna connector CANNOT be used due to the inadequate ground plane properties on a speaker microphone at low band frequencies (the TK-190 does not have an RF pin on its accessory connector).

⁷ **Important Note regarding KNB-21N/22N/22NC:**

- NiMH batteries will exhibit reduced capacity while exposed to temperatures below 14°F (-10°C) and become virtually unusable below -4°F or (-20°C). NiMH batteries are commonly used in extreme low temperature environments (ex: northern latitudes, refrigerated warehousing, etc.) by keeping the portable next to the body under the users coats. Prolonged exposure to extreme cold should be avoided for proper radio operation.

- NiMH batteries capacity life is slightly lower than NiCd: NiCd : 70% at 500 cycles vs. NiMH (1600 mAh): 60% at 500 cycles

⁸ **Meets Intrinsically Safe requirements** of Classes I, II, III, Division 1, Groups C, D, E, F, G, & Non-Incendive Class I, Division 2, Group C, D hazardous locations. The KNB-22NC is labeled "KNB-22NC is an authorized alternate to KNB-17B" and therefore the KNB-22NC can be sold into existing portable fleets using KNB-17BK and not compromise the portables I.S. certification. The KNB-22NC does NOT require re-adjustment of the Low Battery Warning settings. Portables previously inspected & readjusted by Kenwood Tuning Dept. or the dealership for KNB-17B Low Battery Warning should be re-adjusted for the Low Battery Warning factory default setting (per the service manual).